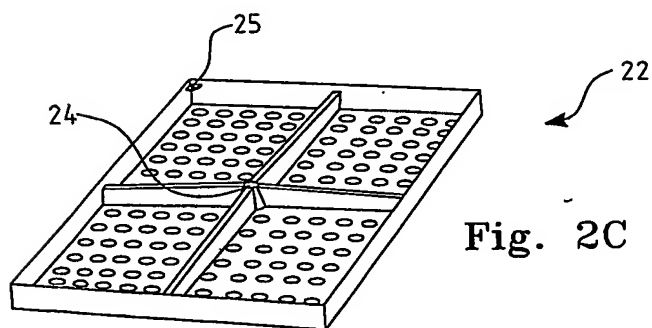
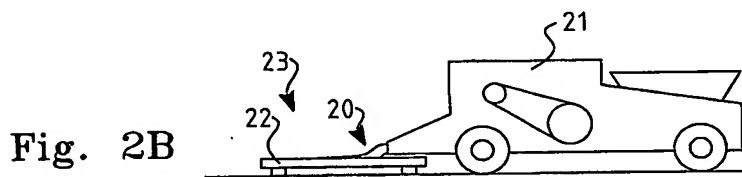
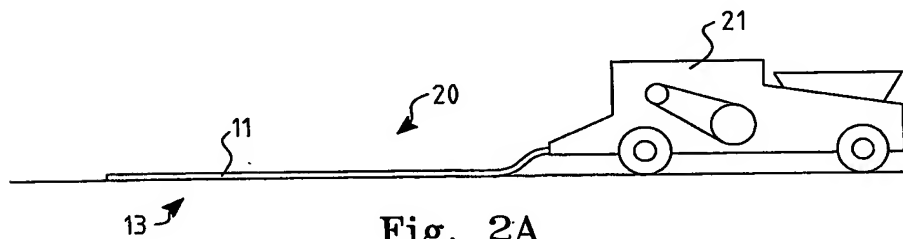
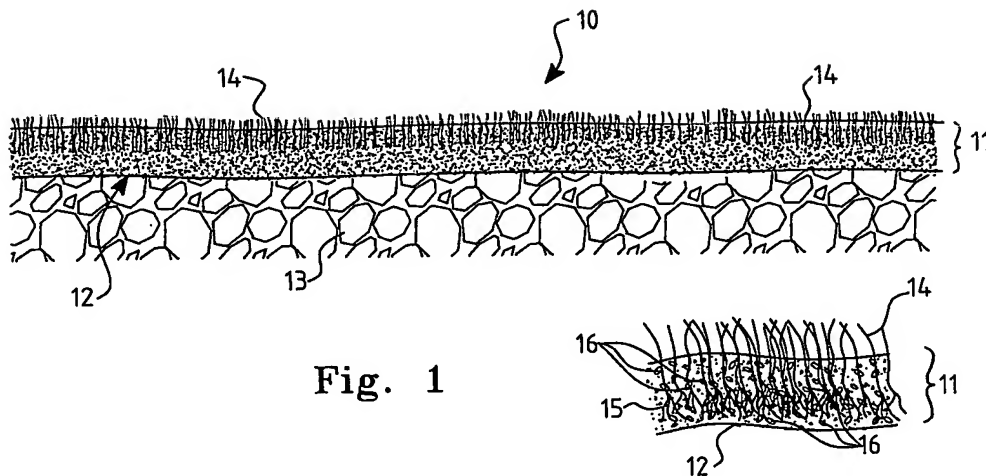


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**Performance Testing
for
Recycled Rubber Replacement Soil Based Turf Growing Medium**

Test Description	Trial No. 1	Specification Acceptance Range
Field Testing	2/8/01	
Football Rebound Resilience	50%	20 to 50%
Clegg Impact Soil Tester Rating	20	20 to 80g
Traction	42 N.m	Minimum 25 N.m Preferred
Distance Rolled by a Football	4.1m	3 to 12m Preferred
Surface Evenness	3.0mm	Maximum 8mm Standard Deviation Preferred
Depth of Grass	20mm	
Type of Grass	Kikuyu	
Thickness of Rubber Profile	75 to 80mm	
Ball	REAL: Size 5:437.8g+	

Notes:

- Specifications from Standards for the Playing Quality of Natural Turf for Association Football by P.M Canaway, M.J Bell, G Holmes and S.W. Baker
- + Calibrated inflation to rebound between 57 to 59% when dropped onto concrete and a drop height of 3m.
- Clegg Impact Hammer: Mass 0.5kg ; Drop 300mm ; 50mm Diameter
- Weather conditions: Fine, dry and between 17 to 20° Celcius
- The rubber soil profile was moist and the test area was made up 1.1m square plates of the grass rubber soil profile

Fig. 3

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**Performance Testing
for
Recycled Rubber Replacement Soil Based Turf Growing Medium**

Test Description	Trial No. 2	Specification Acceptance Range
Field Testing	2/8/01	
Football Rebound Resilience	49%	20 to 50%
Clegg Impact Soil Tester Rating	15	20 to 80g
Traction	59 N.m	Minimum 25 N.m Preferred
Distance Rolled by a Football	4.1m	3 to 12m Preferred
Surface Evenness	2.3mm	Maximum 8mm Standard Deviation Preferred
Depth of Grass	20mm	
Type of Grass	Kikuyu	
Thickness of Rubber Profile	90mm	
Ball	REAL: Size 5:437.8g+	

Notes:

- Specifications from Standards for the Playing Quality of Natural Turf for Association Football by P.M Canaway, M.J Bell, G Holmes and S.W. Baker
- + Calibrated inflation to rebound between 57 to 59% when dropped onto concrete and a drop height of 3m.
- Clegg Impact Hammer: Mass 0.5kg ; Drop 300mm ; 50mm Diameter
- Weather conditions: Fine, dry and between 17 to 20° Celcius
- The rubber soil profile was moist and the test area was made up 1.1m square plates of the grass rubber soil profile

Fig. 4

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**Performance Testing
for
Recycled Rubber Replacement Soil Based Turf Growing Medium**

Test Description	Trial No.3	Specification Acceptance Range
Field Testing	2/8/01	
Football Rebound Resilience	45%	20 to 50%
Clegg Impact Soil Tester Rating	22	20 to 80g
Traction	42 N.m	Minimum 25 N.m Preferred
Distance Rolled by a Football	-	3 to 12m Preferred
Surface Evenness	3mm	Maximum 8mm Standard Deviation Preferred
Depth of Grass	15mm	
Type of Grass	Couch	
Thickness of Rubber Profile	70mm	
Ball	REAL: Size 5:437.8g+	

Notes:

- Specifications from Standards for the Playing Quality of Natural Turf for Association Football by P.M Canaway, M.J Bell, G Holmes and S.W. Baker
- + Calibrated inflation to rebound between 57 to 59% when dropped onto concrete and a drop height of 3m.
- Clegg Impact Hammer: Mass 0.5kg ; Drop 300mm ; 50mm Diameter
- Weather conditions: Fine, dry and between 17 to 20° Celcius
- The rubber soil profile was moist and the test area was made up 1.1m square plates of the grass rubber soil profile

Fig. 5

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Performance Testing
of
Turf Growing Medium

Test Description	Trial Rubber	Trial SFS	Trial SCG	Specification Acceptance Range
Field Testing	2/8/01	16/8/01	16/8/01	
Football Rebound Resilience	50 %	38 %	45 %	20 to 50%
Clegg Impact Soil Tester Rating	20 g	13 g	16 g	20 to 80g
Traction	42 N.m	55 N.m	65 N.m	Minimum 25 N.m Preferred
Distance Rolled by a Football	4.1 m	3.8 m	4.7 m	3 to 12m Preferred
Surface Evenness	3.0 mm	4.8 mm	1.8 mm	Maximum 6mm Standard Deviation Preferred
Type of Profile	Rubber	Sand/Soil	Sand	
Depth of Grass	20 mm	20mm to 35mm	25mm to 30mm	
Type of Grass	Kikuyu	Couch Legend	Couch Legend	
Thickness of Soil Profile	75mm to 80mm	> 300 mm	300mm	
Ball	REAL: Size 5:437.8g+			

Fig. 6

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resilience test results

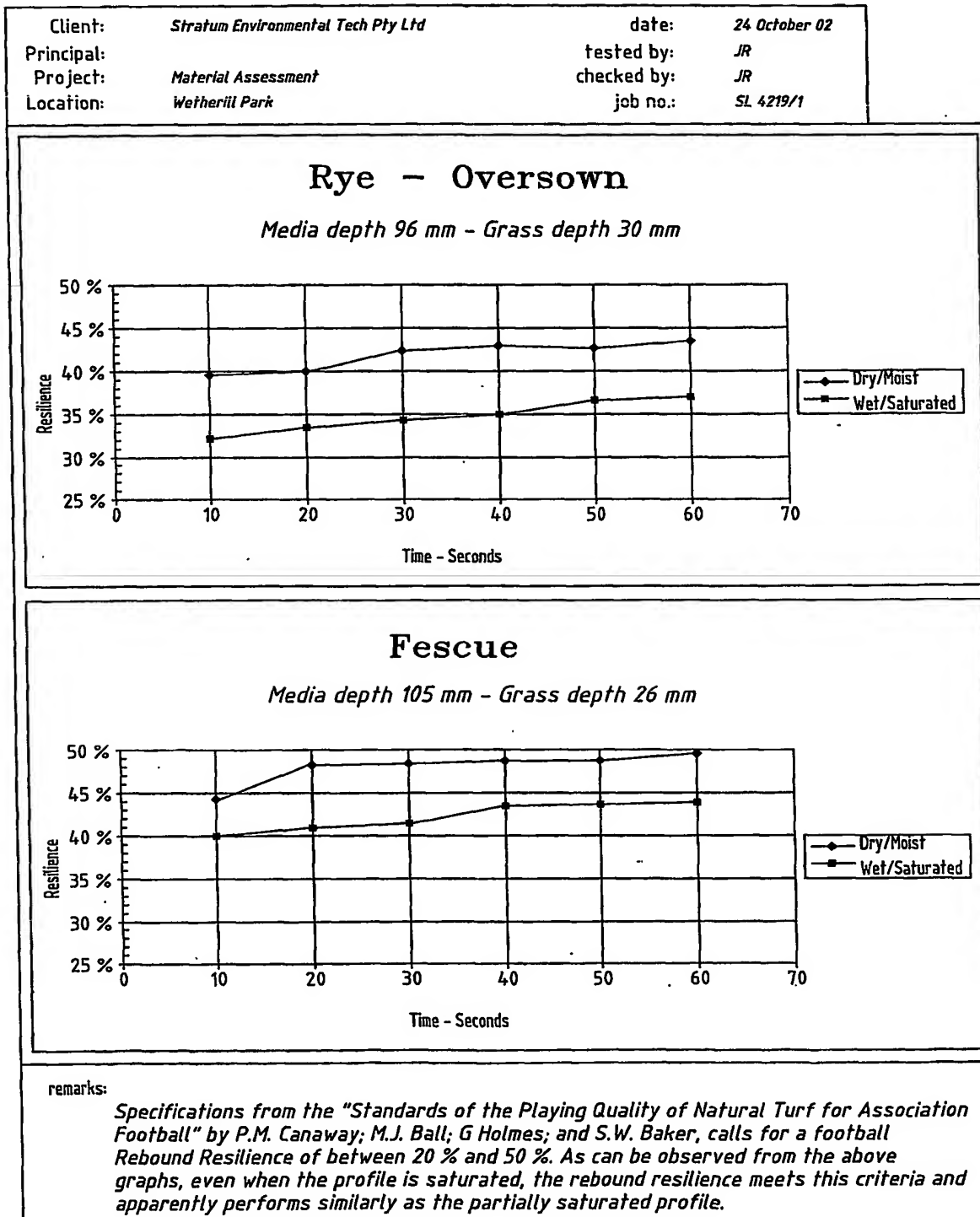


Fig. 7

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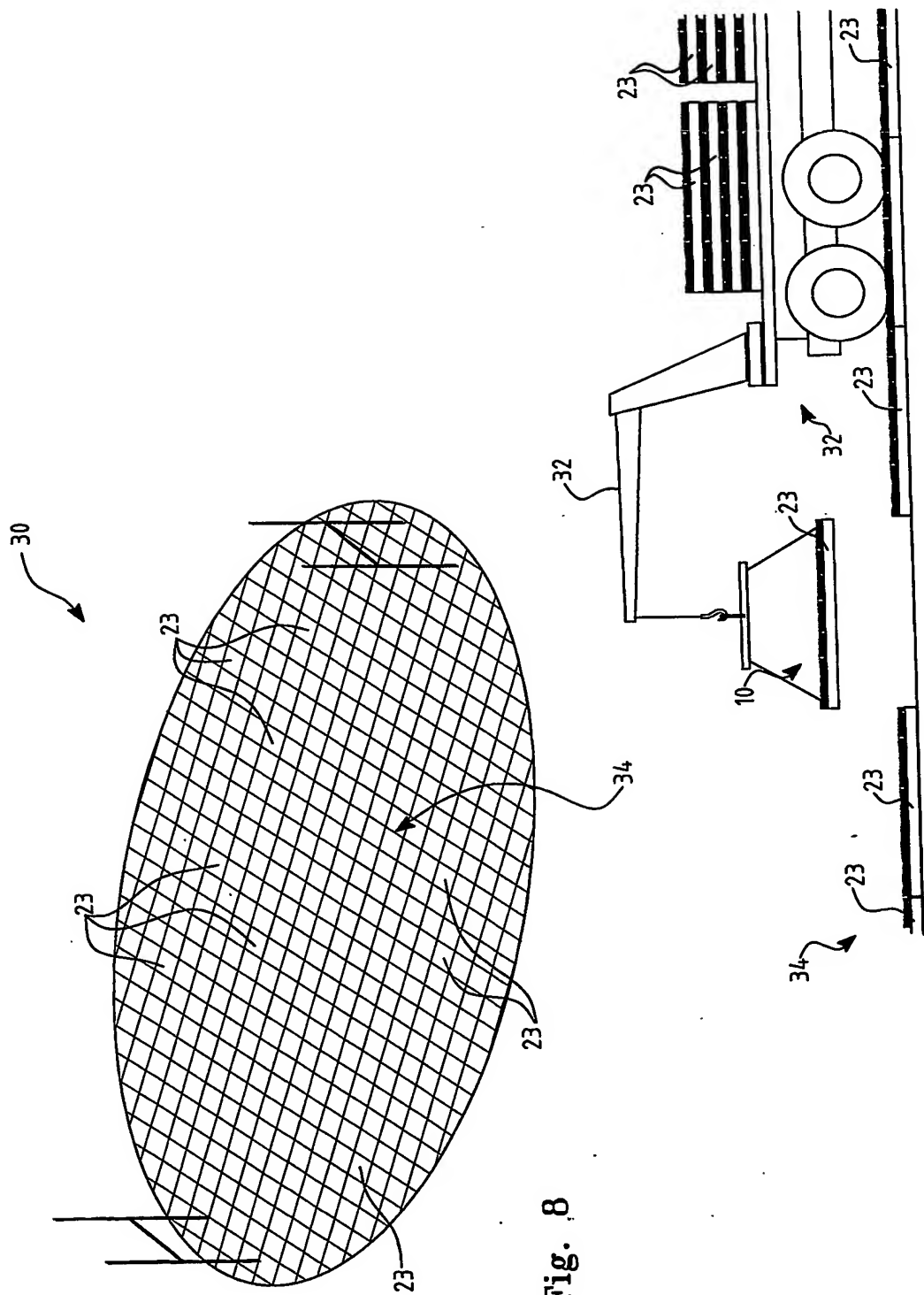


Fig. 9

Fig. 8

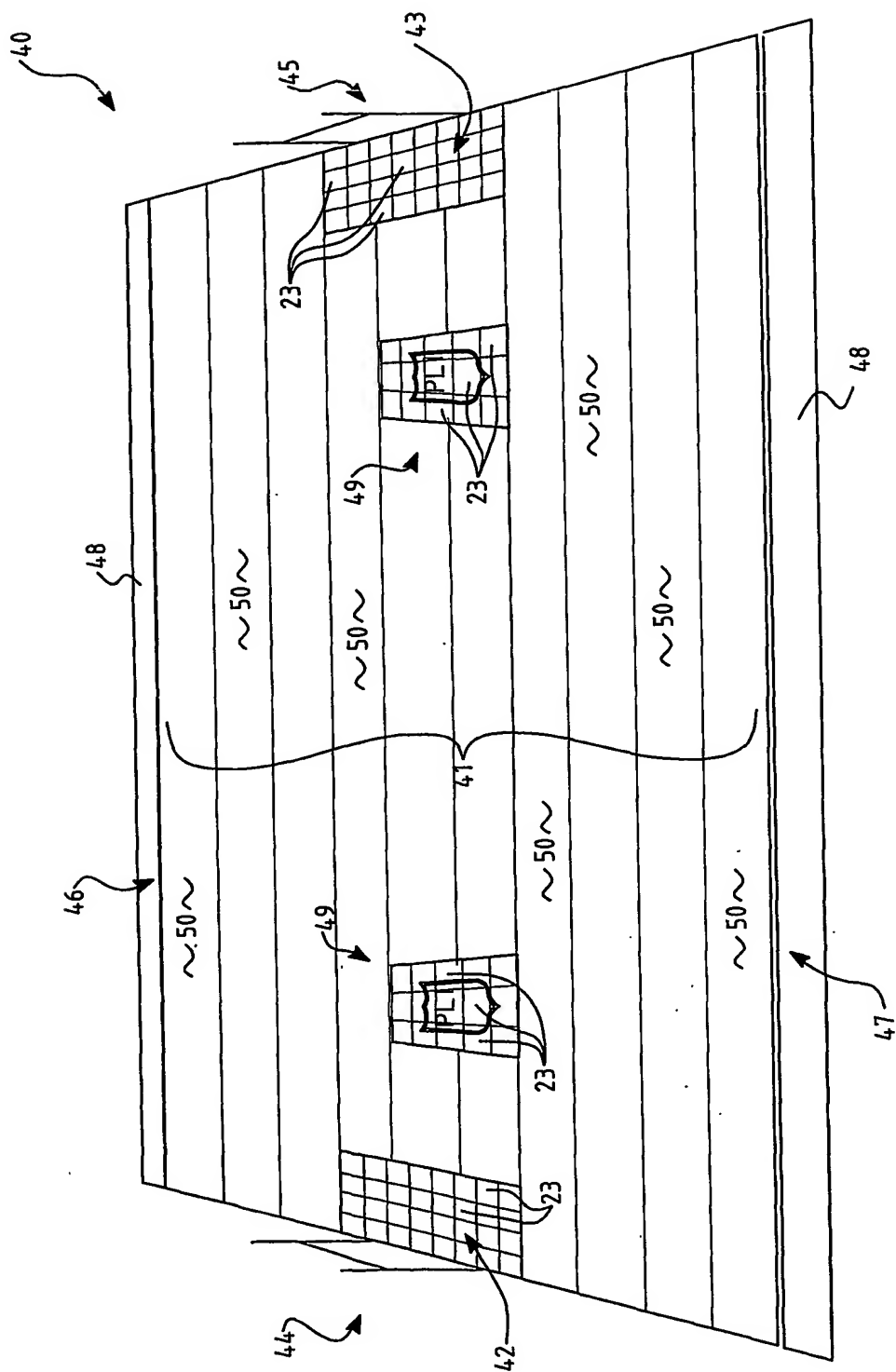


Fig. 10

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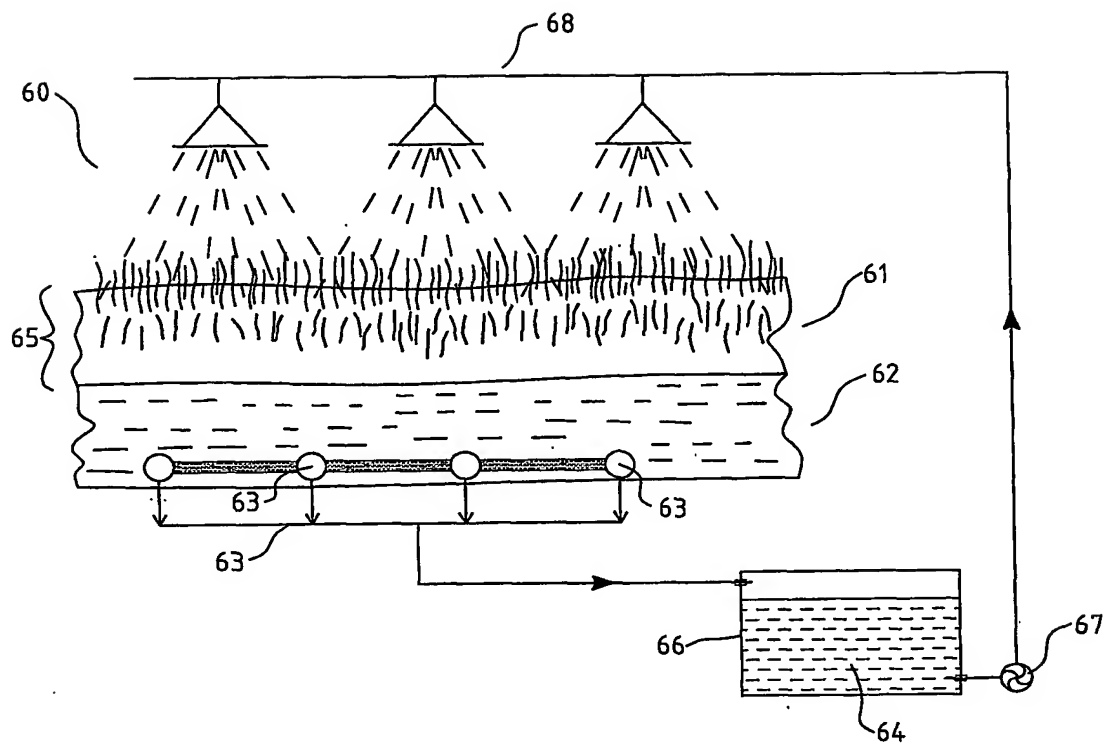


Fig. 11

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